

## **Premature Mortality Rate (PMR)**

Definition: Premature mortality is defined as deaths occurring before age 75. The premature mortality rate (PMR) is the number of deaths/100,000 persons, age-adjusted to the 2000 US Standard population.

Background: The PMR is considered an excellent, single measure that reflects the health status of a population, and the need for systematic public health approaches to health promotion and disease prevention. PMR analyses make clear that community health status is related to many factors. Health care is certainly one of these factors, but not the only factor. As our analyses make clear, the PMR may be related to socioeconomic status and its correlates: potential issues such as environmental conditions, housing, education, stress, higher rates of smoking, substance abuse, violence, obesity, and lack of access to care. However, there are other possible reasons for high PMRs: specific subpopulations of younger persons at risk such as HIV/AIDS in Provincetown; increased motor vehicle deaths in rural areas; heart attack deaths in persons 45-64 in suburbia, etc.). The PMR has limitations: 1) it does not identify specific reasons why it some areas may be high or low; 2) summary measures may sometimes obscure important subgroup differences; and 3) mortality might not be a good measure of important public health issues (e.g. & Ultimately, the PMR is a useful planning tool to begin discussions that allow policy makers, community advocates, public health professionals, and cities and towns to consider more effective and cost efficient approaches to improving the quality of life and health of the public. Furthermore, the PMR is helpful because it moves us away from considering only individual diseases, and directs us towards considering the overall health of our communities.

For further information on the PMR, please see the following two publications: Eyles J, Birch S. A population needs-based approach to health care resource allocation and planning in Ontario: A link between policy goals and practice. Can J Public Health 1993; 84(2): 112-117 and Carstairs V., Morris R. Deprivation and Health in Scotland. Aberdeen Scotland: Aberdeen University Pres, 1991.

Documentation: These data are based on Massachusetts Deaths 2001.

This file is divided up into 3 pages:

- 1) PMR rates for Massachusetts communities in 2001 with 20+ deaths in alphabetically order;
- 2) the same spreadsheet but displayed from highest rate to lowest rate;
- 3) the 30 largest communities with an indication of statistically significant rates compared to the statewide average.

PMR all cities alphabetical

TOWNNAME	Number of deaths	PMR	95% Confidence Interval	
			Lower	Upper
ABINGTON	53	409.54	306.20	544.79
ACTON	32	191.71	129.31	280.63
ACUSHNET	41	369.52	264.13	512.78
ADAMS	45	475.87	344.81	652.00
AGAWAM	91	318.15	255.75	394.83
ALFORD	5	--	--	--
AMESBURY	63	419.63	321.75	545.00
AMHERST	40	227.46	161.78	317.13
ANDOVER	58	193.82	146.68	254.88
AQUINNAH	1	--	--	--
ARLINGTON	131	286.88	239.59	343.03
ASHBURNHAM	10	--	--	--
ASHBY	16	--	--	--
ASHFIELD	4	--	--	--
ASHLAND	41	302.45	215.69	420.60
ATHOL	56	522.30	393.62	689.59
ATTLEBORO	162	422.74	359.92	496.03
AUBURN	66	371.85	286.26	481.10
AVON	21	368.21	225.35	587.89
AYER	19	--	--	--
BARNSTABLE	160	274.68	232.64	323.97
BARRE	14	--	--	--
BECKET	6	--	--	--
BEDFORD	36	243.60	169.58	346.44
BELCHERTOWN	36	353.17	244.60	504.63
BELLINGHAM	47	337.01	246.57	457.58
BELMONT	58	226.56	171.37	298.07
BERKLEY	15	--	--	--
BERLIN	5	--	--	--
BERNARDSTON	4	--	--	--
BEVERLY	150	387.49	327.74	457.63
BILLERICA	144	427.67	359.35	508.34
BLACKSTONE	30	416.12	279.14	612.20
BLANDFORD	6	--	--	--
BOLTON	10	--	--	--
BOSTON	2,018	430.51	411.73	450.14
BOURNE	82	387.75	306.87	488.52
BOXBOROUGH	10	--	--	--
BOXFORD	12	--	--	--
BOYLSTON	11	--	--	--
BRAINTREE	150	395.86	334.18	468.38
BREWSTER	33	286.43	186.75	432.37
BRIDGEWATER	56	286.80	215.42	379.84
BRIMFIELD	12	--	--	--
BROCKTON	366	444.23	399.78	493.48
BROOKFIELD	13	--	--	--
BROOKLINE	119	232.66	192.29	281.05
BUCKLAND	9	--	--	--
BURLINGTON	66	239.30	184.51	309.14
CAMBRIDGE	247	332.02	291.24	378.31
CANTON	63	290.24	222.52	376.97

PMR all cities alphabetical

TOWNNAME	Number of deaths	PMR	95% Confidence Interval	
			Lower	Upper
CARLISLE	6	--	--	--
CARVER	39	355.10	251.48	497.03
CHARLEMONT	3	--	--	--
CHARLTON	27	360.23	232.92	547.87
CHATHAM	37	426.04	283.38	631.66
CHELMSFORD	84	238.39	189.90	298.46
CHELSEA	137	498.25	417.40	593.98
CHESHIRE	7	--	--	--
CHESTER	6	--	--	--
CHESTERFIELD	0	--	--	--
CHICOPEE	221	388.81	338.74	446.00
CHILMARK	2	--	--	--
CLARKSBURG	9	--	--	--
CLINTON	46	362.64	265.01	492.90
COHASSET	19	--	--	--
COLRAIN	5	--	--	--
CONCORD	39	198.51	140.83	277.40
CONWAY	8	--	--	--
CUMMINGTON	3	--	--	--
DALTON	25	337.27	217.21	514.78
DANVERS	100	357.94	290.56	440.03
DARTMOUTH	98	316.49	256.42	389.78
DEDHAM	70	269.44	209.40	345.44
DEERFIELD	10	--	--	--
DENNIS	70	284.75	216.27	373.18
DIGHTON	20	336.70	204.24	541.75
DOUGLAS	16	--	--	--
DOVER	12	--	--	--
DRACUT	79	297.77	235.50	375.40
DUDLEY	35	383.71	266.70	546.49
DUNSTABLE	10	--	--	--
DUXBURY	51	382.02	282.34	513.76
EAST BRIDGEWATER	45	398.37	289.28	544.70
EAST BROOKFIELD	3	--	--	--
EAST LONGMEADOW	54	343.38	257.00	456.32
EASTHAM	20	256.40	148.69	428.81
EASTHAMPTON	53	352.80	263.48	469.81
EASTON	63	327.90	251.28	426.07
EDGARTOWN	8	--	--	--
EGREMONT	3	--	--	--
ERVING	2	--	--	--
ESSEX	14	--	--	--
EVERETT	154	427.53	362.10	504.24
FAIRHAVEN	62	360.19	275.13	469.49
FALL RIVER	400	459.24	415.00	508.08
FALMOUTH	141	332.73	276.27	400.13
FITCHBURG	156	453.32	384.66	533.67
FLORIDA	2	--	--	--
FOXBOROUGH	46	285.50	208.39	388.48
FRAMINGHAM	185	295.26	254.14	342.76
FRANKLIN	70	318.23	246.73	408.93

PMR all cities alphabetical

TOWNNAME	Number of deaths	PMR	95% Confidence Interval	
			Lower	Upper
FREETOWN	21	255.10	155.37	409.01
GARDNER	95	473.14	382.01	584.67
GAY HEAD	0	--	--	--
GEORGETOWN	18	--	--	--
GILL	2	--	--	--
GLOUCESTER	102	306.39	249.25	375.86
GOSHEN	2	--	--	--
GOSNOLD	0	--	--	--
GRAFTON	39	298.74	211.77	417.78
GRANBY	21	349.24	214.87	555.03
GRANVILLE	4	--	--	--
GREAT BARRINGTON	36	459.21	320.08	652.29
GREENFIELD	61	352.99	269.39	460.48
GROTON	31	440.34	292.49	653.66
GROVELAND	12	--	--	--
HADLEY	20	420.41	253.57	679.78
HALIFAX	23	307.17	193.99	477.06
HAMILTON	14	--	--	--
HAMPDEN	19	--	--	--
HANCOCK	2	--	--	--
HANOVER	43	358.40	257.99	494.09
HANSON	37	437.67	305.69	620.53
HARDWICK	8	--	--	--
HARVARD	13	--	--	--
HARWICH	54	308.28	224.86	419.76
HATFIELD	16	--	--	--
HAVERHILL	200	394.14	341.18	454.98
HAWLEY	1	--	--	--
HEATH	1	--	--	--
HINGHAM	57	278.81	209.87	368.52
HINSDALE	3	--	--	--
HOLBROOK	51	426.73	315.91	573.00
HOLDEN	47	308.07	225.36	418.35
HOLLAND	5	--	--	--
HOLLISTON	41	332.01	236.39	462.42
HOLYOKE	156	439.49	372.86	517.47
HOPEDALE	18	--	--	--
HOPKINTON	25	264.33	166.84	410.73
HUBBARDSTON	11	--	--	--
HUDSON	57	315.40	238.61	414.90
HULL	52	443.40	330.12	592.19
HUNTINGTON	4	--	--	--
IPSWICH	40	308.29	217.65	432.78
KINGSTON	29	278.12	184.77	412.79
LAKEVILLE	30	348.92	233.79	513.88
LANCASTER	11	--	--	--
LANESBOROUGH	6	--	--	--
LAWRENCE	219	416.89	362.57	479.04
LEE	27	387.13	253.72	581.67
LEICESTER	36	374.22	261.44	530.43
LENOX	14	--	--	--

PMR all cities alphabetical

TOWNNAME	Number of deaths	PMR	95% Confidence Interval	
			Lower	Upper
LEOMINSTER	144	371.63	313.22	440.41
LEVERETT	4	--	--	--
LEXINGTON	77	221.32	172.69	282.66
LEYDEN	1	--	--	--
LINCOLN	7	--	--	--
LITTLETON	22	294.30	181.97	465.70
LONGMEADOW	40	241.85	169.95	340.97
LOWELL	396	466.44	421.30	516.29
LUDLOW	79	355.94	281.49	448.76
LUNENBURG	24	277.60	175.96	429.73
LYNN	367	467.86	421.11	519.64
LYNNFIELD	27	212.60	137.56	323.13
MALDEN	208	393.27	341.38	452.74
MANCHESTER	15	--	--	--
MANSFIELD	43	305.28	217.03	425.77
MARBLEHEAD	51	217.99	161.89	291.83
MARION	16	--	--	--
MARLBOROUGH	101	316.34	257.29	388.13
MARSHFIELD	95	424.46	342.13	525.38
MASHPEE	49	331.95	241.02	453.96
MATTAPOISETT	22	299.37	183.70	476.86
MAYNARD	14	--	--	--
MEDFIELD	17	--	--	--
MEDFORD	211	371.68	322.71	427.79
MEDWAY	27	273.06	178.50	411.25
MELROSE	76	271.30	213.36	343.88
MENDON	15	--	--	--
MERRIMAC	14	--	--	--
METHUEN	145	346.44	292.17	410.31
MIDDLEBOROUGH	78	470.65	370.68	595.72
MIDDLEFIELD	3	--	--	--
MIDDLETON	15	--	--	--
MILFORD	64	272.33	209.21	353.04
MILLBURY	44	336.39	243.18	461.90
MILLIS	19	--	--	--
MILLVILLE	7	--	--	--
MILTON	78	297.22	234.44	375.67
MONROE	0	--	--	--
MONSON	24	316.89	201.50	489.18
MONTAGUE	42	477.45	342.85	659.69
MONTEREY	0	--	--	--
MONTGOMERY	4	--	--	--
MOUNT WASHINGTON	0	--	--	--
NAHANT	11	--	--	--
NANTUCKET	23	260.66	163.30	407.71
NATICK	94	291.65	235.16	360.86
NEEDHAM	59	197.08	149.22	259.03
NEW ASHFORD	1	--	--	--
NEW BEDFORD	399	450.27	406.84	498.20
NEW BRAINTREE	3	--	--	--
NEW MARLBOROUGH	4	--	--	--

PMR all cities alphabetical

TOWNNAME	Number of deaths	PMR	95% Confidence Interval	
			Lower	Upper
NEW SALEM	3	--	--	--
NEWBURY	24	380.14	241.81	586.63
NEWBURYPORT	53	295.73	220.37	394.64
NEWTON	182	217.95	187.27	253.46
NORFOLK	20	273.37	160.16	453.22
NORTH ADAMS	56	366.07	275.20	484.44
NORTH ANDOVER	62	265.89	203.46	345.99
NORTH ATTLEBORO	82	361.87	286.83	455.23
NORTH BROOKFIELD	14	--	--	--
NORTH READING	53	402.06	300.01	535.84
NORTHAMPTON	97	371.60	300.72	458.18
NORTHBOROUGH	32	263.51	178.21	384.83
NORTHBRIDGE	58	506.73	384.15	665.28
NORTHFIELD	10	--	--	--
NORTON	48	366.55	267.55	498.78
NORWELL	27	263.05	171.93	396.19
NORWOOD	92	295.23	237.42	366.25
OAK BLUFFS	16	--	--	--
OAKHAM	4	--	--	--
ORANGE	31	425.67	287.96	621.48
ORLEANS	28	261.83	167.01	403.06
OTIS	5	--	--	--
OXFORD	44	367.90	266.76	503.73
PALMER	51	421.43	313.03	564.10
PAXTON	8	--	--	--
PEABODY	173	317.63	271.53	371.22
PELHAM	5	--	--	--
PEMBROKE	51	353.06	260.98	474.75
PEPPERELL	30	354.16	235.02	526.21
PERU	1	--	--	--
PETERSHAM	4	--	--	--
PHILLIPSTON	3	--	--	--
PITTSFIELD	154	313.91	265.67	370.50
PLAINFIELD	1	--	--	--
PLAINVILLE	20	274.88	167.12	441.41
PLYMOUTH	158	357.74	303.44	421.30
PLYMPTON	8	--	--	--
PRINCETON	6	--	--	--
PROVINCETOWN	28	623.68	412.97	928.44
QUINCY	349	383.78	344.26	427.72
RANDOLPH	107	340.15	278.52	414.64
RAYNHAM	40	347.59	247.83	483.47
READING	73	304.39	237.97	388.03
REHOBOTH	24	250.98	159.47	387.70
REVERE	192	389.77	335.97	451.83
RICHMOND	3	--	--	--
ROCHESTER	14	--	--	--
ROCKLAND	69	409.16	318.06	524.46
ROCKPORT	22	222.66	138.98	349.42
ROWE	1	--	--	--
ROWLEY	15	--	--	--

PMR all cities alphabetical

TOWNNAME	Number of deaths	PMR	95% Confidence Interval	
			Lower	Upper
ROYALSTON	5	--	--	--
RUSSELL	3	--	--	--
RUTLAND	9	--	--	--
SALEM	135	352.06	294.95	419.67
SALISBURY	37	451.54	316.42	638.24
SANDISFIELD	8	--	--	--
SANDWICH	58	287.96	217.79	378.92
SAUGUS	99	330.78	267.82	407.65
SAVOY	5	--	--	--
SCITUATE	69	351.78	271.63	453.81
SEEKONK	32	228.87	155.84	332.16
SHARON	40	251.60	178.22	352.09
SHEFFIELD	10	--	--	--
SHELBURNE	9	--	--	--
SHERBORN	5	--	--	--
SHIRLEY	22	397.65	246.71	627.32
SHREWSBURY	69	229.65	178.36	294.63
SHUTESBURY	1	--	--	--
SOMERSET	69	308.38	237.27	399.18
SOMERVILLE	244	413.75	362.67	471.76
SOUTH HADLEY	57	322.78	243.36	425.98
SOUTHAMPTON	20	397.86	238.66	646.41
SOUTHBOROUGH	16	--	--	--
SOUTHBRIDGE	64	412.41	317.25	533.93
SOUTHWICK	33	403.06	276.11	581.74
SPENCER	39	345.12	244.85	482.27
SPRINGFIELD	591	459.34	422.91	498.84
STERLING	24	394.00	248.50	612.63
STOCKBRIDGE	5	--	--	--
STONEHAM	89	363.08	290.48	452.65
STOUGHTON	89	311.02	249.26	387.13
STOW	17	--	--	--
STURBRIDGE	35	451.14	312.71	644.13
SUDBURY	40	250.16	176.99	350.47
SUNDERLAND	5	--	--	--
SUTTON	19	--	--	--
SWAMPSCOTT	37	251.42	175.91	355.88
SWANSEA	48	285.47	209.40	386.65
TAUNTON	224	439.63	383.81	503.27
TEMPLETON	25	382.79	246.49	584.33
TEWKSBURY	99	347.53	282.00	427.38
TISBURY	14	--	--	--
TOLLAND	1	--	--	--
TOPSFIELD	17	--	--	--
TOWNSEND	22	326.29	198.69	523.24
TRURO	7	--	--	--
TYNGSBOROUGH	29	357.92	234.16	538.63
TYRINGHAM	1	--	--	--
UPTON	15	--	--	--
UXBRIDGE	44	475.94	343.58	654.36
WAKEFIELD	73	304.19	237.82	387.77

PMR all cities alphabetical

TOWNNAME	Number of deaths	PMR	95% Confidence Interval	
			Lower	Upper
WALES	10	--	--	--
WALPOLE	64	276.49	212.54	358.20
WALTHAM	178	327.84	281.16	381.93
WARE	39	421.21	298.92	588.41
WAREHAM	112	507.32	416.80	616.41
WARREN	16	--	--	--
WARWICK	1	--	--	--
WASHINGTON	1	--	--	--
WATERTOWN	83	260.51	206.13	328.27
WAYLAND	32	213.95	145.89	310.10
WEBSTER	68	428.72	332.46	550.81
WELLESLEY	41	168.67	119.58	235.83
WELLFLEET	7	--	--	--
WENDELL	0	--	--	--
WENHAM	11	--	--	--
WEST BOYLSTON	17	--	--	--
WEST BRIDGEWATER	31	441.48	298.57	644.72
WEST BROOKFIELD	6	--	--	--
WEST NEWBURY	15	--	--	--
WEST SPRINGFIELD	126	438.03	364.47	525.65
WEST STOCKBRIDGE	3	--	--	--
WEST TISBURY	2	--	--	--
WESTBOROUGH	39	271.50	191.97	380.58
WESTFIELD	148	399.83	337.85	472.63
WESTFORD	46	279.89	201.14	386.45
WESTHAMPTON	6	--	--	--
WESTMINSTER	14	--	--	--
WESTON	14	--	--	--
WESTPORT	45	284.19	205.69	389.78
WESTWOOD	39	251.52	177.08	353.96
WEYMOUTH	204	354.84	307.49	409.20
WHATELY	2	--	--	--
WHITMAN	51	453.84	336.48	608.54
WILBRAHAM	30	206.52	136.25	308.44
WILLIAMSBURG	10	--	--	--
WILLIAMSTOWN	23	283.87	176.21	447.65
WILMINGTON	64	330.74	254.21	428.56
WINCHENDON	41	490.39	350.66	680.28
WINCHESTER	43	189.83	136.94	261.18
WINDSOR	2	--	--	--
WINTHROP	62	314.67	240.99	409.14
WOBBURN	129	325.68	271.23	390.50
WORCESTER	679	453.56	419.93	489.83
WORTHINGTON	3	--	--	--
WRENTHAM	33	335.09	228.45	485.78
YARMOUTH	118	344.41	279.52	423.45

Calculations based on fewer than 20 deaths are excluded (--)

\*\*Rates are the number of deaths per 100,000 persons ages 0-74 age-adjusted to the 2000 US Standard Population



All cities (ranked by PMR)

TOWNNAME	Number of deaths	PMR	95% Confidence Interval	
			Lower	Upper
PROVINCETOWN	28	623.68	412.97	928.44
ATHOL	56	522.30	393.62	689.59
WAREHAM	112	507.32	416.80	616.41
NORTHBRIDGE	58	506.73	384.15	665.28
CHELSEA	137	498.25	417.40	593.98
WINCHENDON	41	490.39	350.66	680.28
MONTAGUE	42	477.45	342.85	659.69
UXBRIDGE	44	475.94	343.58	654.36
ADAMS	45	475.87	344.81	652.00
GARDNER	95	473.14	382.01	584.67
MIDDLEBOROUGH	78	470.65	370.68	595.72
LYNN	367	467.86	421.11	519.64
LOWELL	396	466.44	421.30	516.29
SPRINGFIELD	591	459.34	422.91	498.84
FALL RIVER	400	459.24	415.00	508.08
GREAT BARRINGTON	36	459.21	320.08	652.29
WHITMAN	51	453.84	336.48	608.54
WORCESTER	679	453.56	419.93	489.83
FITCHBURG	156	453.32	384.66	533.67
SALISBURY	37	451.54	316.42	638.24
STURBRIDGE	35	451.14	312.71	644.13
NEW BEDFORD	399	450.27	406.84	498.20
BROCKTON	366	444.23	399.78	493.48
HULL	52	443.40	330.12	592.19
WEST BRIDGEWATER	31	441.48	298.57	644.72
GROTON	31	440.34	292.49	653.66
TAUNTON	224	439.63	383.81	503.27
HOLYOKE	156	439.49	372.86	517.47
WEST SPRINGFIELD	126	438.03	364.47	525.65
HANSON	37	437.67	305.69	620.53
BOSTON	2,018	430.51	411.73	450.14
WEBSTER	68	428.72	332.46	550.81
BILLERICA	144	427.67	359.35	508.34
EVERETT	154	427.53	362.10	504.24
HOLBROOK	51	426.73	315.91	573.00
CHATHAM	37	426.04	283.38	631.66
ORANGE	31	425.67	287.96	621.48
MARSHFIELD	95	424.46	342.13	525.38
ATTLEBORO	162	422.74	359.92	496.03
PALMER	51	421.43	313.03	564.10
WARE	39	421.21	298.92	588.41
HADLEY	20	420.41	253.57	679.78
AMESBURY	63	419.63	321.75	545.00
LAWRENCE	219	416.89	362.57	479.04
BLACKSTONE	30	416.12	279.14	612.20
SOMERVILLE	244	413.75	362.67	471.76
SOUTHBRIDGE	64	412.41	317.25	533.93
ABINGTON	53	409.54	306.20	544.79
ROCKLAND	69	409.16	318.06	524.46
SOUTHWICK	33	403.06	276.11	581.74
NORTH READING	53	402.06	300.01	535.84

## All cities (ranked by PMR)

TOWNNAME	Number of deaths	PMR	95% Confidence Interval	
			Lower	Upper
WESTFIELD	148	399.83	337.85	472.63
EAST BRIDGEWATER	45	398.37	289.28	544.70
SOUTHAMPTON	20	397.86	238.66	646.41
SHIRLEY	22	397.65	246.71	627.32
BRAINTREE	150	395.86	334.18	468.38
HAVERHILL	200	394.14	341.18	454.98
STERLING	24	394.00	248.50	612.63
MALDEN	208	393.27	341.38	452.74
REVERE	192	389.77	335.97	451.83
CHICOPEE	221	388.81	338.74	446.00
BOURNE	82	387.75	306.87	488.52
BEVERLY	150	387.49	327.74	457.63
LEE	27	387.13	253.72	581.67
QUINCY	349	383.78	344.26	427.72
DUDLEY	35	383.71	266.70	546.49
TEMPLETON	25	382.79	246.49	584.33
DUXBURY	51	382.02	282.34	513.76
NEWBURY	24	380.14	241.81	586.63
LEICESTER	36	374.22	261.44	530.43
AUBURN	66	371.85	286.26	481.10
MEDFORD	211	371.68	322.71	427.79
LEOMINSTER	144	371.63	313.22	440.41
NORTHAMPTON	97	371.60	300.72	458.18
ACUSHNET	41	369.52	264.13	512.78
AVON	21	368.21	225.35	587.89
OXFORD	44	367.90	266.76	503.73
NORTON	48	366.55	267.55	498.78
NORTH ADAMS	56	366.07	275.20	484.44
STONEHAM	89	363.08	290.48	452.65
CLINTON	46	362.64	265.01	492.90
NORTH ATTLEBORO	82	361.87	286.83	455.23
CHARLTON	27	360.23	232.92	547.87
FAIRHAVEN	62	360.19	275.13	469.49
HANOVER	43	358.40	257.99	494.09
DANVERS	100	357.94	290.56	440.03
TYNGSBOROUGH	29	357.92	234.16	538.63
PLYMOUTH	158	357.74	303.44	421.30
LUDLOW	79	355.94	281.49	448.76
CARVER	39	355.10	251.48	497.03
WEYMOUTH	204	354.84	307.49	409.20
PEPPERELL	30	354.16	235.02	526.21
BELCHERTOWN	36	353.17	244.60	504.63
PEMBROKE	51	353.06	260.98	474.75
GREENFIELD	61	352.99	269.39	460.48
EASTHAMPTON	53	352.80	263.48	469.81
SALEM	135	352.06	294.95	419.67
SCITUATE	69	351.78	271.63	453.81
GRANBY	21	349.24	214.87	555.03
LAKEVILLE	30	348.92	233.79	513.88
RAYNHAM	40	347.59	247.83	483.47
TEWKSBURY	99	347.53	282.00	427.38

## All cities (ranked by PMR)

TOWNNAME	Number of deaths	PMR	95% Confidence Interval	
			Lower	Upper
METHUEN	145	346.44	292.17	410.31
SPENCER	39	345.12	244.85	482.27
YARMOUTH	118	344.41	279.52	423.45
EAST LONGMEADOW	54	343.38	257.00	456.32
RANDOLPH	107	340.15	278.52	414.64
DALTON	25	337.27	217.21	514.78
BELLINGHAM	47	337.01	246.57	457.58
DIGHTON	20	336.70	204.24	541.75
MILLBURY	44	336.39	243.18	461.90
WRENTHAM	33	335.09	228.45	485.78
FALMOUTH	141	332.73	276.27	400.13
CAMBRIDGE	247	332.02	291.24	378.31
HOLLISTON	41	332.01	236.39	462.42
MASHPEE	49	331.95	241.02	453.96
SAUGUS	99	330.78	267.82	407.65
WILMINGTON	64	330.74	254.21	428.56
EASTON	63	327.90	251.28	426.07
WALTHAM	178	327.84	281.16	381.93
TOWNSEND	22	326.29	198.69	523.24
WOBURN	129	325.68	271.23	390.50
SOUTH HADLEY	57	322.78	243.36	425.98
FRANKLIN	70	318.23	246.73	408.93
AGAWAM	91	318.15	255.75	394.83
PEABODY	173	317.63	271.53	371.22
MONSON	24	316.89	201.50	489.18
DARTMOUTH	98	316.49	256.42	389.78
MARLBOROUGH	101	316.34	257.29	388.13
HUDSON	57	315.40	238.61	414.90
WINTHROP	62	314.67	240.99	409.14
PITTSFIELD	154	313.91	265.67	370.50
STOUGHTON	89	311.02	249.26	387.13
SOMERSET	69	308.38	237.27	399.18
IPSWICH	40	308.29	217.65	432.78
HARWICH	54	308.28	224.86	419.76
HOLDEN	47	308.07	225.36	418.35
HALIFAX	23	307.17	193.99	477.06
GLOUCESTER	102	306.39	249.25	375.86
MANSFIELD	43	305.28	217.03	425.77
READING	73	304.39	237.97	388.03
WAKEFIELD	73	304.19	237.82	387.77
ASHLAND	41	302.45	215.69	420.60
MATTAPOISETT	22	299.37	183.70	476.86
GRAFTON	39	298.74	211.77	417.78
DRACUT	79	297.77	235.50	375.40
MILTON	78	297.22	234.44	375.67
NEWBURYPORT	53	295.73	220.37	394.64
FRAMINGHAM	185	295.26	254.14	342.76
NORWOOD	92	295.23	237.42	366.25
LITTLETON	22	294.30	181.97	465.70
NATICK	94	291.65	235.16	360.86
CANTON	63	290.24	222.52	376.97

## All cities (ranked by PMR)

TOWNNAME	Number of deaths	PMR	95% Confidence Interval	
			Lower	Upper
SANDWICH	58	287.96	217.79	378.92
ARLINGTON	131	286.88	239.59	343.03
BRIDGEWATER	56	286.80	215.42	379.84
BREWSTER	33	286.43	186.75	432.37
FOXBOROUGH	46	285.50	208.39	388.48
SWANSEA	48	285.47	209.40	386.65
DENNIS	70	284.75	216.27	373.18
WESTPORT	45	284.19	205.69	389.78
WILLIAMSTOWN	23	283.87	176.21	447.65
WESTFORD	46	279.89	201.14	386.45
HINGHAM	57	278.81	209.87	368.52
KINGSTON	29	278.12	184.77	412.79
LUNENBURG	24	277.60	175.96	429.73
WALPOLE	64	276.49	212.54	358.20
PLAINVILLE	20	274.88	167.12	441.41
BARNSTABLE	160	274.68	232.64	323.97
NORFOLK	20	273.37	160.16	453.22
MEDWAY	27	273.06	178.50	411.25
MILFORD	64	272.33	209.21	353.04
WESTBOROUGH	39	271.50	191.97	380.58
MELROSE	76	271.30	213.36	343.88
DEDHAM	70	269.44	209.40	345.44
NORTH ANDOVER	62	265.89	203.46	345.99
HOPKINTON	25	264.33	166.84	410.73
NORTHBOROUGH	32	263.51	178.21	384.83
NORWELL	27	263.05	171.93	396.19
ORLEANS	28	261.83	167.01	403.06
NANTUCKET	23	260.66	163.30	407.71
WATERTOWN	83	260.51	206.13	328.27
EASTHAM	20	256.40	148.69	428.81
FREETOWN	21	255.10	155.37	409.01
SHARON	40	251.60	178.22	352.09
WESTWOOD	39	251.52	177.08	353.96
SWAMPSCOTT	37	251.42	175.91	355.88
REHOBOTH	24	250.98	159.47	387.70
SUDBURY	40	250.16	176.99	350.47
BEDFORD	36	243.60	169.58	346.44
LONGMEADOW	40	241.85	169.95	340.97
BURLINGTON	66	239.30	184.51	309.14
CHELMSFORD	84	238.39	189.90	298.46
BROOKLINE	119	232.66	192.29	281.05
SHREWSBURY	69	229.65	178.36	294.63
SEEKONK	32	228.87	155.84	332.16
AMHERST	40	227.46	161.78	317.13
BELMONT	58	226.56	171.37	298.07
ROCKPORT	22	222.66	138.98	349.42
LEXINGTON	77	221.32	172.69	282.66
MARBLEHEAD	51	217.99	161.89	291.83
NEWTON	182	217.95	187.27	253.46
WAYLAND	32	213.95	145.89	310.10
LYNNFIELD	27	212.60	137.56	323.13

All cities (ranked by PMR)

TOWNNAME	Number of deaths	PMR	95% Confidence Interval	
			Lower	Upper
WILBRAHAM	30	206.52	136.25	308.44
CONCORD	39	198.51	140.83	277.40
NEEDHAM	59	197.08	149.22	259.03
ANDOVER	58	193.82	146.68	254.88
ACTON	32	191.71	129.31	280.63
WINCHESTER	43	189.83	136.94	261.18
WELLESLEY	41	168.67	119.58	235.83
ALFORD	5	--	--	--
AQUINNAH	1	--	--	--
ASHBURNHAM	10	--	--	--
ASHBY	16	--	--	--
ASHFIELD	4	--	--	--
AYER	19	--	--	--
BARRE	14	--	--	--
BECKET	6	--	--	--
BERKLEY	15	--	--	--
BERLIN	5	--	--	--
BERNARDSTON	4	--	--	--
BLANDFORD	6	--	--	--
BOLTON	10	--	--	--
BOXBOROUGH	10	--	--	--
BOXFORD	12	--	--	--
BOYLSTON	11	--	--	--
BRIMFIELD	12	--	--	--
BROOKFIELD	13	--	--	--
BUCKLAND	9	--	--	--
CARLISLE	6	--	--	--
CHARLEMONT	3	--	--	--
CHESHIRE	7	--	--	--
CHESTER	6	--	--	--
CHESTERFIELD	0	--	--	--
CHILMARK	2	--	--	--
CLARKSBURG	9	--	--	--
COHASSET	19	--	--	--
COLRAIN	5	--	--	--
CONWAY	8	--	--	--
CUMMINGTON	3	--	--	--
DEERFIELD	10	--	--	--
DOUGLAS	16	--	--	--
DOVER	12	--	--	--
DUNSTABLE	10	--	--	--
EAST BROOKFIELD	3	--	--	--
EDGARTOWN	8	--	--	--
EGREMONT	3	--	--	--
ERVING	2	--	--	--
ESSEX	14	--	--	--
FLORIDA	2	--	--	--
GAY HEAD	0	--	--	--
GEORGETOWN	18	--	--	--
GILL	2	--	--	--
GOSHEN	2	--	--	--

All cities (ranked by PMR)

TOWNNAME	Number of deaths	PMR	95% Confidence Interval	
			<u>Lower</u>	<u>Upper</u>
GOSNOLD	0	--	--	--
GRANVILLE	4	--	--	--
GROVELAND	12	--	--	--
HAMILTON	14	--	--	--
HAMPDEN	19	--	--	--
HANCOCK	2	--	--	--
HARDWICK	8	--	--	--
HARVARD	13	--	--	--
HATFIELD	16	--	--	--
HAWLEY	1	--	--	--
HEATH	1	--	--	--
HINSDALE	3	--	--	--
HOLLAND	5	--	--	--
HOPEDALE	18	--	--	--
HUBBARDSTON	11	--	--	--
HUNTINGTON	4	--	--	--
LANCASTER	11	--	--	--
LANESBOROUGH	6	--	--	--
LENOX	14	--	--	--
LEVERETT	4	--	--	--
LEYDEN	1	--	--	--
LINCOLN	7	--	--	--
MANCHESTER	15	--	--	--
MARION	16	--	--	--
MAYNARD	14	--	--	--
MEDFIELD	17	--	--	--
MENDON	15	--	--	--
MERRIMAC	14	--	--	--
MIDDLEFIELD	3	--	--	--
MIDDLETON	15	--	--	--
MILLIS	19	--	--	--
MILLVILLE	7	--	--	--
MONROE	0	--	--	--
MONTEREY	0	--	--	--
MONTGOMERY	4	--	--	--
MOUNT WASHINGTON	0	--	--	--
NAHANT	11	--	--	--
NEW ASHFORD	1	--	--	--
NEW BRAintree	3	--	--	--
NEW MARLBOROUGH	4	--	--	--
NEW SALEM	3	--	--	--
NORTH BROOKFIELD	14	--	--	--
NORTHFIELD	10	--	--	--
OAK BLUFFS	16	--	--	--
OAKHAM	4	--	--	--
OTIS	5	--	--	--
PAXTON	8	--	--	--
PELHAM	5	--	--	--
PERU	1	--	--	--
PETERSHAM	4	--	--	--
PHILLIPSTON	3	--	--	--

All cities (ranked by PMR)

TOWNNAME	Number of deaths	PMR	95% Confidence Interval	
			Lower	Upper
PLAINFIELD	1	--	--	--
PLYMPTON	8	--	--	--
PRINCETON	6	--	--	--
RICHMOND	3	--	--	--
ROCHESTER	14	--	--	--
ROWE	1	--	--	--
ROWLEY	15	--	--	--
ROYALSTON	5	--	--	--
RUSSELL	3	--	--	--
RUTLAND	9	--	--	--
SANDISFIELD	8	--	--	--
SAVOY	5	--	--	--
SHEFFIELD	10	--	--	--
SHELBURNE	9	--	--	--
SHERBORN	5	--	--	--
SHUTESBURY	1	--	--	--
SOUTHBOROUGH	16	--	--	--
STOCKBRIDGE	5	--	--	--
STOW	17	--	--	--
SUNDERLAND	5	--	--	--
SUTTON	19	--	--	--
TISBURY	14	--	--	--
TOLLAND	1	--	--	--
TOPSFIELD	17	--	--	--
TRURO	7	--	--	--
TYRINGHAM	1	--	--	--
UPTON	15	--	--	--
WALES	10	--	--	--
WARREN	16	--	--	--
WARWICK	1	--	--	--
WASHINGTON	1	--	--	--
WELLFLEET	7	--	--	--
WENDELL	0	--	--	--
WENHAM	11	--	--	--
WEST BOYLSTON	17	--	--	--
WEST BROOKFIELD	6	--	--	--
WEST NEWBURY	15	--	--	--
WEST STOCKBRIDGE	3	--	--	--
WEST TISBURY	2	--	--	--
WESTHAMPTON	6	--	--	--
WESTMINSTER	14	--	--	--
WESTON	14	--	--	--
WHATELY	2	--	--	--
WILLIAMSBURG	10	--	--	--
WINDSOR	2	--	--	--
WORTHINGTON	3	--	--	--

Calculations based on fewer than 20 deaths are excluded (--)

\*\*Rates are the number of deaths per 100,000 persons ages 0-74 age-adjusted to the 2000 US Standard Population

**MA deaths among residents <75 years of age, 2001**

<b>TOWNNAME</b>	<b>Number of deaths &lt;75 years</b>	<b>Lower Limit</b>	<b>PMR</b>	<b>Upper Limit</b>	<b>Statistically Significant Different from State's PMR</b>
LYNN	367	421.11	467.86	519.64	<b>YES</b>
LOWELL	396	421.30	466.44	516.29	<b>YES</b>
SPRINGFIELD	591	422.91	459.34	498.84	<b>YES</b>
FALL RIVER	400	415.00	459.24	508.08	<b>YES</b>
WORCESTER	679	419.93	453.56	489.83	<b>YES</b>
NEW BEDFORD	399	406.84	450.27	498.20	<b>YES</b>
BROCKTON	366	399.78	444.23	493.48	<b>YES</b>
TAUNTON	224	383.81	439.63	503.27	<b>YES</b>
BOSTON	2,018	411.73	430.51	450.14	<b>YES</b>
ATTLEBORO	162	359.92	422.74	496.03	<b>YES</b>
LAWRENCE	219	362.57	416.89	479.04	<b>YES</b>
SOMERVILLE	244	362.67	413.75	471.76	<b>YES</b>
HAVERHILL	200	341.18	394.14	454.98	
MALDEN	208	341.38	393.27	452.74	
REVERE	192	335.97	389.77	451.83	
CHICOPEE	221	338.74	388.81	446.00	
QUINCY	349	344.26	383.78	427.72	
MEDFORD	211	322.71	371.68	427.79	
PLYMOUTH	158	303.44	357.74	421.30	
WEYMOUTH	204	307.49	354.84	409.20	
METHUEN	145	292.17	346.44	410.31	
CAMBRIDGE	247	291.24	332.02	378.31	
WALTHAM	178	281.16	327.84	381.93	
PEABODY	173	271.53	317.63	371.22	
PITTSFIELD	154	265.67	313.91	370.50	
FRAMINGHAM	185	254.14	295.26	342.76	
ARLINGTON	131	239.59	286.88	343.03	
BARNSTABLE	160	232.64	274.68	323.97	<b>YES</b>
BROOKLINE	119	192.29	232.66	281.05	<b>YES</b>
NEWTON	182	187.27	217.95	253.46	<b>YES</b>
<b>State</b>	<b>20,918</b>	<b>342.55</b>	<b>347.25</b>	<b>352.00</b>	

**\*\*Rates are the number of deaths per 100,000 persons ages 0-74 age-adjusted to the 2000 US Standard P**



largest 30 cities

opulation